AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows. This listing of claims will replace all prior listings.

- 1. (CURRENTLY AMENDED) A composite leaf spring comprising:
- a forward leaf spring segment defining an arcuate segment;
- a rearward leaf spring segment; and
- a mounting segment intermediate said forward leaf spring segment and said rearward leaf spring segment, said mounting segment <u>having a width and a depth, defining and</u> a continuously variable cross-sectional shape in both said width and said depth.
- 2. (PREVIOUSLY PRESENTED) The composite leaf spring as recited in claim 1, wherein any cross-section taken perpendicular to said mounting segment and within said mounting segment defines a substantially equivalent cross-sectional area.
- 3. (CURRENTLY AMENDED) The composite leaf spring as recited in claim 1, wherein said mounting segment width comprising a tapering width and said mounting segment depth comprising an expanding depth-such that any cross-section taken perpendicular to said mounting segment and within said mounting segment provides a unique cross-sectional shape.
- 4. (ORIGINAL) The composite leaf spring as recited in claim 1, wherein said rearward leaf spring segment defines a first arc in a first direction and said forward leaf spring segment defines a second arc in a second direction.
- 5. (ORIGINAL) The composite leaf spring as recited in claim 1, wherein said forward leaf spring segment is thicker in depth than said rearward leaf spring segment.

- 6. (CURRENTLY AMENDED) A suspension system comprising:
- a composite leaf spring comprising a forward leaf spring segment defining an arcuate segment, a rearward leaf spring segment, and a mounting segment intermediate said forward leaf spring segment and said rearward leaf spring segment, said mounting segment having a width and a depth, and a continuously variable cross-sectional shape in both said width and said depth; and
- an axle beam attachment system defining a cavity engageable with said mounting segment at only a single predefined location along said mounting segment.
- 7. (CURRENTLY AMENDED) The suspension system as recited in claim 6, wherein said mounting segment width comprises a tapering width and said mounting segment depth comprising an expanding depth-such that a cross-sectional area taken perpendicular to said mounting segment and within said mounting segment provides a unique cross-sectional shape.
- 8. (CURRENTLY AMENDED) The suspension system as recited in claim 6, wherein any cross-section taken perpendicular to said mounting segment and within said mounting segment defines a cross-sectional area equivalent to any other cross-section taken perpendicular to and within said mounting segment within said mounting segment.
- (PREVIOUSLY PRESENTED) The suspension system as recited in claim 6, wherein said axle beam attachment system comprises a mount attached to said composite leaf spring.
- 10. (ORIGINAL) The suspension system as recited in claim 9, wherein said mount is an integral portion of said composite leaf spring.
 - 11. (CANCELLED)

- 12. (PREVIOUSLY PRESENTED) The suspension system as recited in claim 9, wherein said mount comprises an upper clamp plate and a lower clamp plate, said upper clamp plate defines a first interior cavity and said lower clamp plate defines a second interior cavity, wherein a leaf spring receipt cavity comprised of said first and second interior cavities corresponds to a leaf spring width and a leaf spring depth for attaching said mount at said single predetermined location along said mounting segment.
- 13. (ORIGINAL) The suspension system as recited in claim 6, further comprising an upper clamp plate and a lower clamp plate which defines said cavity when mounted together.
- 14. (ORIGINAL) The suspension system as recited in claim 13, wherein said upper clamp plate and said lower clamp plate sandwich said composite leaf spring.
 - 15. (CURRENTLY AMENDED) A suspension system comprising:
 - a composite leaf spring comprising a mounting segment intermediate a forward leaf spring segment defining an arcuate segment and a rearward leaf spring segment the mounting segment having a width and a depth, and a continuously variable cross-sectional shape in both said width and said depth; and
 - an axle beam attachment system which interlocks at a single predetermined location along said mounting segment.
- 16. (CURRENTLY AMENDED) The suspension system as recited in claim 15, wherein said mounting segment width comprises a tapering width and said mounting segment depth comprises an expanding depth such that any cross-section taken perpendicular to said mounting segment and within said mounting segment provides a singular cross-sectional shape.
- 17. (CURRENTLY AMENDED) The suspension system as recited in claim 15, wherein any cross-section taken perpendicular to said mounting segment and within said

mounting segment defines a cross-sectional area equivalent to any other cross-section taken perpendicular to <u>and within said mounting segment-within-said mounting segment</u>.

- 18. (PREVIOUSLY PRESENTED) The suspension system as recited in claim 15, wherein said axle beam attachment system defines a cavity which surrounds a singular segment within said mounting segment to interlock said axle beam attachment system with said composite leaf spring.
- 19. (ORIGINAL) The suspension system as recited in claim 18, further comprising a plurality of plates which define said cavity.
- 20. (ORIGINAL) The suspension system as recited in claim 19, wherein said plurality of plates are fastened together to define said cavity.
- 21. (ORIGINAL) The suspension system as recited in claim 19, further comprising an axle beam mounted to at least one of said plurality of plates.
- 22. (CURRENTLY AMENDED) A method of mounting an axle beam to a composite leaf spring comprising the steps of:
 - (1) defining a mounting segment along a composite leaf spring comprising a tapering width and an expanding depth such that any cross-section taken perpendicular to the mounting segment and within the mounting segment has a width and a depth, and provides a unique defines a singular cross-sectional shape in both said width and said depth;
 - (2) mechanically interlocking an axle beam attachment system with a cross-sectional shape at a single predetermined location along the mounting segment; and
 - (3) mounting an axle beam to the axle beam attachment system such that the axle beam is transverse to the composite leaf spring.

- 23. (CURRENTLY AMENDED) A method as recited in claim 22, wherein <u>said</u> step (2) further comprises attaching an upper and lower plate together to define a cavity equivalent to the cross-sectional shape at the single predetermined location to at least partially surround and mechanically interlock the axle beam attachment system with the composite leaf spring.
- 24. (CURRENTLY AMENDED) A method as recited in claim 22, wherein <u>said</u> step (2) further comprises overmolding a molded material at the single predetermined location along the mounting segment to interlock the molded material with the composite leaf spring.

25. (CANCELLED)

- 26. (CURRENTLY AMENDED) The composite leaf spring as recited in claim 1, wherein a-said width of said mounting segment is constantly decreasing as asaid depth of said mounting segment is constantly increasing toward said rearward leaf spring segment.
- 27. (PREVIOUSLY PRESENTED) The composite leaf spring as recited in claim 1, wherein said forward leaf spring segment is of a greater depth and of a lesser width than said rearward leaf spring segment.
- 28. (PREVIOUSLY PRESENTED) The composite leaf spring as recited in claim 1, wherein said rearward leaf spring segment is of constant depth and width throughout a length thereof.
- 29. (PREVIOUSLY PRESENTED) The composite leaf spring as recited in claim 1, wherein said forward leaf spring segment, said rearward leaf spring segment, and said mounting segment are manufactured of a substantially solid composite material.

- 30. (CURRENTLY AMENDED) The suspension system as recited in claim 6, wherein said cavity having-defines a shape that corresponds to a cross-sectional shape of the mounting segment at said single predefined location.
- 31. (NEW) The composite leaf spring as recited in claim 1, wherein said continuously variable cross-sectional shape is defined such that any cross-section taken perpendicular to the mounting segment and within the mounting segment provides a singular unique cross-sectional shape within said mounting segment.
- 32. (NEW) The suspension system as recited in claim 6, wherein said continuously variable cross-sectional shape is defined such that any cross-section taken perpendicular to the mounting segment and within the mounting segment provides a singular unique cross-sectional shape within said mounting segment.
- 33. (NEW) The suspension system as recited in claim 15, wherein said continuously variable cross-sectional shape is defined such that any cross-section taken perpendicular to the mounting segment and within the mounting segment provides a singular unique cross-sectional shape within said mounting segment.